

Title (en)  
HEAT SOURCE ROD PRODUCTION MACHINE AND ITS PRODUCTION METHOD

Title (de)  
HITZEQUELLENSTABPRODUKTIONSMASCHINE UND DEREN HERSTELLUNGSVERFAHREN

Title (fr)  
MACHINE DE PRODUCTION DE TIGE DE SOURCE DE CHALEUR ET SON PROCEDE DE FABRICATION

Publication  
**EP 1808087 A1 20070718 (EN)**

Application  
**EP 05793434 A 20051017**

Priority  
• JP 2005019015 W 20051017  
• JP 2004309743 A 20041025

Abstract (en)  
A manufacturing machine manufactures a heat-source rod having a rod-like extrusion-molded article made from a combustible material with axial grooves in the cylindrical surface thereof and a heat-insulating web enveloping the article, and is provided with a apparatus 10 for spouting water to the web W in the process of the web W being fed to a wrapping section 4. The spout apparatus 10 includes an air vibrator 12 with a vibrating rod 34, and a flexible nozzle 36 attached to the rod 34 to extend across the rod 34 and supplied with water from a rate regulating pump 42. While the web W is being fed, the end of the nozzle 36 spouts water to the web W, reciprocating widthways relative to the web W due to vibration of the rod 34, and the water spouted dissolves a binder used in the web W to bind heat-insulating fiber, thereby forming a wet band H, where the wet band H has a waveform continuing along the longitudinal direction of the web W and provides a adhesive region for bonding the article.

IPC 8 full level  
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**EP 1808087 A1 20070718**; **EP 1808087 A4 20120509**; **EP 1808087 B1 20130116**; CA 2584759 A1 20060504; CA 2584759 C 20110104;  
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JP 2005019015 W 20051017; JP 2006542962 A 20051017; KR 20077008801 A 20070418; RU 2007119400 A 20051017;  
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